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INTERNA	ATTONAL	SKARCH	KEPORT

International application No.

PCT/JP2004/017027

A.	CLASSIFICATION OF SUBJECT MATTER
	Int Cl ⁷ B23011/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ B23B41/02, B23C5/28, B23Q11/00, 11/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 8-197371 A (Horkos Corp.), 06 August, 1996 (06.08.96), Full text; all drawings (Family: none)	1 2,3
Y A	JP 2002-66873 A (Horkos Corp.), 05 March, 2002 (05.03.02), Par No. [0071] & WO 02/022307 A1	1 2,3
Y A 	JP 2002-321111 A (Yunitakku Kabushiki Kaisha, Toshiba Tungaloy Co., Ltd.), 05 November, 2002 (05.11.02), Full text; all drawings (Family: none)	1 2,3

* "A"	to be of particular relevance		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"E"				
"L"	cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the			
			document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
_			combined with one or more other such documents, such combination	
"P"			being obvious to a person skilled in the art	
	priority date claimed	"&"	document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report		
02 February, 2005 (02.02.05)			15 February, 2005 (15.02.05)	
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Name and mailing address of the ISA/		Authorized officer		
Japanese Patent Office		1		
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Facsimile No.		Tele	ephone No.	
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See patent family annex.